

## **APPENDIX E CONTENT AND FORMAT OF ENGINEERING DOCUMENTATION REPORT**

### **E-1. Definition**

An Engineering Documentation Report (EDR) is a technical implementation document that supplements a decision document or that is used in lieu of a regular decision document to support a PCA. An EDR is required to support the PCA when there are minor changes in design and costs from the authorizing reports. The EDR may also be used in lieu of a GRR to document other information not included in a decision document when project reformulation is not required and the changes are only technical changes. The content of an EDR will vary based on the purpose for preparing the EDR. An EDR, which presents only technical design changes and revised cost estimate to support a PCA, may be only a few pages in length. Where, an EDR prepared to support a project authorized without a feasibility report would be a more detailed document. When project reformulation is required, a GRR or LRR with Engineering Appendix shall be prepared instead of an EDR. The format of an EDR shall be the same as the format of the Design Documentation Report.

### **E-2. General**

The EDR will be based upon the project identified in the feasibility report and/or authorizing document. Changes in the project configuration shall be properly documented and justified in the EDR. For authorized projects, significant changes shall be presented in an executive summary of the project, including the project plan recommended in the EDR with information such as the project purposes, level of protection, design flows, etc. Duplication of data presented in previous decision documents shall be minimized; however, care shall be taken to cover all areas of insufficiency in the feasibility report and/or engineering appendix thereto. The EDR will include applicable items in the following paragraphs and any additional information required for the specific project concerned.

### **E-3. Table of Contents**

The table of contents shall include all major paragraph titles, paragraph numbers, and page numbers, and shall identify the subject of all appendices. Figures, plates, and tables shall be separately listed.

### **E-4. Pertinent Data**

A tabular summary of essential data on the project cost, benefit-to-cost ratio, physical features, project purpose, and controlling elevations (e.g., for design flood, real estate acquisition, relocations, etc.) shall be provided.

### **E-5. Status of Project Authorization**

State the status of project authorization, i.e., feasibility report completed and public notice issued or project authorized. Explain the need for an EDR. Briefly describe the project recommended in the feasibility report or the authorized project as described in the authorizing document. For authorized projects, cite the specific authorizing law with section number. If not covered in the feasibility report, describe the previous project, if the current project is a modification thereof, and include data conforming to those contained in the Annual Report on percentage of completion, present condition and relation of uncompleted features of the previous project to the current plan.

#### **E-6. Items of Local Cooperation and the Project Cooperation Agreement**

The items of local cooperation will be summarized in the report. The proposed actions on the PCA will be discussed in accordance with current policy.

#### **E-7. Previous Investigations**

State whether or not the reconnaissance and feasibility phases of project development were managed under the project management policy. If not, state character and extent of previous surveys and studies made in connection with the feasibility document, cite the document number (if applicable), and treat any other pertinent prior investigations similarly. State briefly the character and extent of surveys, studies (including re-evaluation studies) and other planning completed subsequent to initiation of PED, including the results of public meetings held.

#### **E-8. Project Description**

Provide a description of the entire project including Federal and non-Federal elements and features in order to convey an understanding of how the project will (and is intended to) function to satisfy project purposes. Also describe adjacent existing Federal and non-Federal projects and facilities that (could) impact the project. Describe briefly each feature or element of the proposed plan of improvement, using headings such as lock, dam outlets, fish passing or propagation facilities, pumping plants, housing facilities, powerplants, shop and maintenance facilities, instrumentation facilities, recreation features, etc., and refer to attached drawings.

#### **E-9. Changes**

Changes in the project recommended in the feasibility report for projects not yet authorized shall be documented and fully justified. For authorized projects, post-authorization changes, which exceed the criteria in ER 1105-2-100, shall be processed in accordance with the cited ER.

#### **E-10. Current Engineering Studies, Investigations, and Design**

Since projects requiring an EDR involve substantial changes or deficiencies in feasibility reports, engineering studies for the EDR will follow closely those currently required for feasibility reports and described in paragraph 12 of the main text. The EDR shall include applicable items of an engineering appendix to a feasibility report; data shall not be duplicated. In lieu of duplication, reference shall be freely made to the engineering appendix for items, which have not changed subsequent to its preparation.

#### **E-11. Cost Estimate**

If the baseline cost estimate was not established in the feasibility phase (e.g., for older authorized projects), it must be developed during the PED phase and reported in the EDR. The submittal requirements to support the EDR are identical to those given for an Engineering Appendix to the Feasibility Report; however, the approval level is the District Commander. Project costs estimates during PED are approved at the district level, unless the cost increase exceeds the project Section 902 limits, which then require project reauthorization and the preparation of a Post-Authorization Change Report by the planning organization.

**E-12. Economic Analysis**

An update of the economic analysis for the project shall be included. The project benefits and annual costs presented in the feasibility report and/or project document shall be updated as appropriate and a new benefit-to-cost ratio provided. Reasons for any revisions shall be explained. Guidance is provided in ER 1105-2-100.

**E-13. Cost Allocation and Cost Sharing**

The cost allocation and cost sharing presented in the feasibility report shall be updated using any new costs and benefits. All changes shall be fully described and supported.

**E-14. Environmental Documentation and Coordination**

The EDR shall include any additional NEPA documentation prepared as a result of the changes to the project during design, or document that no additional NEPA documentation is necessary. The views and comments of other interested Federal, State and local agencies will be obtained as they relate to their specific areas of responsibilities. The document will also include the views and comments of the non-Federal sponsor.

**E-15. Review and Approval**

The EDR is subject to the standard ITR process. Once, the review comments are resolved, the approval level of the EDR is the District Commander.